

## MARY FARIS, PH.D.

### **EDUCATION:**

- 1994-1996: Postdoctoral Fellowship, UCLA School of Medicine.
- 1991-1994: Postdoctoral Fellowship, University of Virginia.
- 1991: Ph.D. in Immunology and Microbiology  
The Ohio State University  
Dissertation Title: Characterization of the Mechanism of Persistent I-A  
Expression by Macrophages.  
Advisor: Dr. Bruce S. Zwillig
- 1986: B.S. Biology/Chemistry (double major) with Distinction,  
University of the State of New York

### **EXPERIENCE:**

- 1999-present: Agensys Inc.
- 2001- present: Group Leader, Research Scientist III
- 1999-2001: Research Scientist II  
*Research Interests:* Functional Validation of Novel and Recently  
Discovered Genes as Therapeutic Targets for Treatment of Cancer.
- 1998-1999: Senior Scientist, Incyte Genomics.  
*Research Interests:* Mechanism of Tumor Growth and Progression.  
Integrated approach to Cancer Biology and Therapeutic Intervention
- 1996-1998: Assistant Researcher, Faculty, UCLA School of Medicine.  
*Research Interests:* Mechanism of T cell Activation and Apoptosis.  
Integration of multiple factors in the angiogenesis/tumorigenesis of  
Kaposi's sarcoma lesions.
- 1994-1996: Postdoctoral Fellow, UCLA School of Medicine.  
Sponsor: Dr. A. Nel.  
*Research Interests:* Signaling Pathways Mediating T cell Activation.  
Signaling Pathways Involved in the Growth of Kaposi's Sarcoma tumors.
- 1991-1994: Postdoctoral Fellow, University of Virginia.  
Sponsor: Dr. S. M. Fu.  
*Research Interests:* CD40-Mediated Signal Transduction in lymphocytes.
- 1989-1991: Graduate Research Associate, The Ohio State University.

Sponsor: Dr. B. Zwilling

*Research Interests:* Regulation of MHC class II Expression by IFN $\gamma$ -mediated Pathways.

1987-1989: Teaching Assistant, The Ohio State University.

## **PUBLICATIONS:**

1. Faris M. and B.S. Zwilling. Somatic Cell Hybrids between Macrophages from Bcg<sup>r</sup> and Bcg<sup>s</sup> Mice: Characterization of MHC Class II Expression. Cellular Immunology, 1990, 127:120.
2. Faris M. and B.S. Zwilling. Characterization of the Persistent I-A Expression by Macrophages from Bcg<sup>r</sup> Mice. J. Leuk. Biol., 1990, 49:289.
3. Zwilling B.S., M. Dinkins, R. Christner, M. Faris, A. Griffin, M. Hillberger, M. McPeck and D. Pearl. Restraint Stress Induced Suppression of MHC Class II Expression by Murine Peritoneal Macrophages. J. Neuroimmunology, 1990, 29:125.
4. Zwilling B.S., D. Brown, R. Christner, M. Faris, M. Hillberger, C. Van Epps and B.A. Hartaub. Differential Effect of Restraint Stress on MHC Class II Expression by Murine Peritoneal Macrophages. Brain Behavior and Immunity, 1990, 4:330.
5. Faris M. and B.S. Zwilling. Characterization of the Induction of Persistent MHC class II Expression by Hybrids of Macrophages from Bcg<sup>r</sup> and Bcg<sup>s</sup> Mice. Euro. J. Immunol., 1991, 21:1047.
6. Faris M., F. Gaskin, R.S. Geha and S.M. Fu. Tyrosine Phosphorylation Defines a Unique Transduction Pathway in Human B Cells Mediated via CD40. Trans. Assoc. Amer. Phys. 1993, 106:187.
7. Brown D., M. Faris, M. Hilburger and B.S. Zwilling. The Induction of Persistent I-A Expression by Macrophages from Bcg<sup>r</sup> Mice Occurs via a Protein Kinase C Dependent Pathway. J. Immunol., 1994, 152:1323.
8. Faris M., F. Gaskin, J.T. Parsons and S.M. Fu. CD40 Signaling Pathway: Anti-CD40 mAb Induces Rapid Dephosphorylation and Phosphorylation of Tyrosine-Phosphorylated Proteins Including Protein Tyrosine Kinase Lyn, Fyn and Syk and the Appearance of a 28kD Tyrosine Phosphorylated Protein. J. Exp. Med., 1994, 179:1923.
9. Faris, M., B. Ensoli, N. Stahl. G. Yancopoulos, A. Nguyen, S. Wang and A. Nel. Differential Activation of the ERK, JNK and JAK-Stat Pathways by Oncostatin M and Basic Fibroblast Growth Factor in AIDS-Related Kaposi's Sarcoma cells. AIDS, 1996, 10:370.
10. Faris, M., N. Kokot, L. Lee and A.E. Nel. Regulation of IL-2 transcription by inducible stable expression of dominant negative and dominant active MEKK-1 in Jurkat T cells. Evidence

for the importance of Ras in a pathway which is controlled by dual receptor stimulation. *J. Biol. Chem.*, 1996, 271:27366.

11. Faris, M., N. Kokot, N. Stahl and A.E. Nel. Involvement of Stat3 in Interleukin-6-induced IgM production in a human B cell line. *Immunol.*, 1997, 90:350.
12. Faris, M., B. Ensoli, N. Kokot and A.E. Nel. Inflammatory Cytokines Induce AP-1 Response Elements: Activation of the bFGF promoter and expression of various bFGF isoforms in Kaposi sarcoma and endothelial cells. *AIDS*, 1998, 12:19.
13. Faris, M., N. Kokot, K. Latinis, S. Kasibhatla, D. Green, G. Koretzky and A.E. Nel. The JNK Cascade Plays a Role in Stress-induced Apoptosis in Jurkat Cells by Upregulating FasL Expression. *J. Immunol.*, 1998, 160:134.
14. Faris, M., B. Ensoli, J. Said, N. Kokot and A.E. Nel. Dominant active Ras affects the life-span, growth factor production and induces Kaposi's sarcoma characteristics in endothelial cells. *Cancer Res.*, 1997, submitted.
15. Ng, D., N. Kokot, M. Faris, A. Saxon and A. Nel. Macrophage Activation by Polycyclic Aromatic Hydrocarbons: Evidence for the involvement of stress-activation protein kinases, AP-1 and anti-oxidant response elements. *J. Immunol.*, 1998, 161: 942.
16. Faris, M., K. M. Latinis, S. Kempia, G. A. Koretzky and Andre Nel. Stress-Induced Fas Ligand Expression in T cells is Mediated Through A MEKK1-Regulated Response Element in the Fas Ligand Promoter. *Mol. Cell. Biol.*, 1998, 18: 5414.
17. Shau, H., A.C. Huang, M. Faris, R. Nazarian., J. de Vellis and W. Chen. Thioredoxin peroxidase (natural killer enhancing factor) regulation of activator protein-1 function in endothelial cells. *Biochem. Biophys. Res. Commun.* 1998, 249: 683.
18. Abreu-Martin, M., A. Palladino, M. Faris, N. Carramanzana, A. Nel, and S.R. Targan. Fas Activates the JNK pathway in Human Colonic Epithelial Cells: Lack of a Direct Role on Apoptosis. *Am. J. Physiol.*, 1999, 276: 599.

#### **ABSTRACTS:**

1. M. Faris and B.S. Zwilling. Characterization of MHC Class II Expression by Macrophage-Hybrids. *J. Leuk. Biol.* 46: 314(86), 1989.
2. M. Faris and B.S. Zwilling. Regulation of the Induction of Persistent Ia Expression by Macrophages from Mice that are Resistant to Mycobacterium bovis Strain (BCG). *FASEB*, 4:1752, 1990.
3. M. Faris and B.S. Zwilling. Continuous Expression of MHC class II Glycoproteins by Macrophage-Hybrids: Regulation of the Induction of the Bcg Gene. *Proc. Biomed. Res. Society*, 1990.

4. B.S. Zwilling and M. Faris. Characterization of the Induction of Persistent I-A Expression by Macrophages from Bcg<sup>r</sup> Mice. *J. Leuk. Biol.*, 48:52, 1990.
5. M. Faris and B.S. Zwilling. The Induction of Persistent Expression of MHC Class II (I-A) Glycoproteins is Mediated by Protein Kinase C (PK-C). *FASEB*, 5:5614, 1991.
6. M. Faris. The Induction of Persistent MHC class II Expression by rIFN- $\gamma$  is Dependent on a Protein Kinase C Mediated Pathway. *The Graduate Research Forum (OSU)*, 1991.
7. M. Faris, F. Gaskin, R. S. Geha and S. M. Fu. Phosphorylation of a 28kD Protein by a CD40 Mediated Tyrosine Kinase Pathway. *J. Immunol.*, 150:556, 1993.
8. M. Faris, F. Gaskin, R. S. Geha and S. M. Fu. Tyrosine Phosphorylation Defines a Unique Transduction Pathway in Human B Cells Mediated via CD40. *Clinical Research*, 41:277A, 1993.
9. M. Faris and S.M. Fu. CD40 Signal Transduction: Association of CD40 with Lyn, PI3K, GAP and PLC $\gamma$ . *Clinical Research*, 42:206A, 1994.
10. M. Faris, S. Wang and A. Nel. The Oncostatin M Induced Proliferative Response in Kaposi's Sarcoma Cells Involves Adaptor Proteins, Raf-1 and MEK-1. *Molecular Pathogenesis and Immunology of HIV-1*, 1994.
11. M. Faris, S. Wang, A. Nguyen and A. Nel. The Oncostatin M Response in Kaposi's Sarcoma Cells Involves JAKs, Adaptor Proteins, Raf-1 and MEK-1. *FASEB*, 9:202A, 1995.
12. A. Nel, M. Faris, F. Xu and N. Kokot. IL-4 and IL-6 Utilize Distinct JAK/Stat Pathways to Drive B-cell Differentiation as Determined at the Level of Ig Genes. *Cell Growth Symposium*, 1996.
13. M. Faris, N. Kokot, L. Lee and A.E. Nel. Regulation of IL-2 Transcription by the JNK Pathway in Jurkat Cells. *J. All. Clin. Immunol.*, 99: LB53, 1997.
14. M. Faris, N. Kokot, K. Latinis, G. A. Koretzky and A.E. Nel. Role of the JNK cascade in stress-induced apoptosis of Jurkat T cells. *FASEB J.*, 12:930A, 1998.
15. A.E. Nel, A. Saxon, D. Ng and M. Faris. Macrophage activation by polycyclic aromatic hydrocarbons: evidence for the involvement of stress-activated protein kinases, AP-1 and anti-oxidant response elements. *FASEB J.*, 12:1062A, 1998.
16. M. Faris, B. Goka and S. Stuart. Gene expression in breast cancer. *Clin. Chem.* 45: 10, 1999.
17. A. Raitano, I. Vivanco, R. Hubert, E. Chen, M. Faris, D. Saffran, D. Afar and A. Jakobovits. Auto-catalytic cleavage of the androgen regulated TMPRSS2 protease results in its

secretion by prostate and colon cancer epithelia. Proc. Amer. Assoc. Cancer Res. 42: 657, 2001

18. M. Faris, P. Velasquez, R. Hubert, D. Saffran, A. Raitano and A. Jakobovits. Validation of STEAP-1 as a therapeutic target.

19. M. Faris, P. Velasquez, P. Nolan, R. Hubert, A. Raitano and A. Jakobovits. Validation of STEAP-1 as a Cell Surface Cancer Therapeutic Target. Proc. Amer. Assoc. Cancer Res. 43: 947, 2002.

#### **PAPERS PRESENTED AT MEETINGS:**

26th Annual Meeting, Society of Leukocyte Biology, October 15-18, 1989, Marco Island, FL, by M. Faris and B.S. Zwilling.

16th Annual ICSABER Graduate Research Forum, May 8, 1990, OSU, Columbus, OH, by M. Faris and B.S. Zwilling.

American Society for Biochemistry and Molecular Biology, The American Association of Immunologists Joint Meeting (FASEB), June 4-7, 1990, New Orleans, LA, by M. Faris and B.S. Zwilling.

27th Annual Meeting, Society of Leukocyte Biology, Twelfth International RES Congress, October 14-18, 1990, Heraklion, Crete, Greece by B.S. Zwilling and M. Faris.

Immunology of Mycobacterial Infections, National Jewish Center of Immunology and Respiratory Medicine, October 1990, Denver, Colorado, by B.S. Zwilling and M. Faris.

Federation of American Societies for Experimental Biology, April 21-25, 1991, Atlanta, GA, by M. Faris and B.S. Zwilling.

5th Annual Graduate Research Forum, April 20, 1991, Fawcett Center, Columbus, OH., by M. Faris.

12th Annual Research Day, Department of Medicine, April 26, 1993, OMNI Hotel, Charlottesville, VA, by M. Faris

AAP/ASCI/AFCR Clinical Research Meeting, April 30-May 3, 1993, Washington DC by M. Faris, F. Gaskin, R.S. Geha and S.M. Fu.

American Association of Immunologists, The Clinical Immunology Society Joint Meeting (FASEB), May 21-25, 1993, Denver, Colorado, by M. Faris, F. Gaskin, R.S. Geha and S.M. Fu.

13th Annual Research Day in Internal Medicine, April 25, 1994, OMNI Hotel, Charlottesville, VA, by M. Faris.

AAP/ASCI/AFCR Clinical Research Meeting, April 29-May 2, 1994, Baltimore, MD by M. Faris and S.M. Fu.

Annual UCLA AIDS Institute Symposium: Molecular Pathogenesis and Immunobiology of HIV-1, November 11, 1994, Loews Santa Monica, CA by M. Faris

Federation of American Societies for Experimental Biology, April 9-13, 1995, Atlanta, GA by M. Faris, S. Wang, A. Nguyen and A. Nel.

UK-RSA Symposium on Cell Growth Control, January 28-February 1, 1996, Cape Town, RSA by A. Nel, M. Faris, F. Xu and N. Kokot.

AAAI/AAI/CIS Joint Meeting, February 21-26, 1997, San Francisco, by M. Faris, N. Kokot, L. Lee and A.E. Nel.

Federation of American Societies for Experimental Biology, April 18-22, 1998, San Francisco, by M. Faris, N. Kokot, K. Latinis, G. A. Koretzky and A.E. Nel

### **SEMINARS AS PRESENTER**

Department of Microbiology, The Ohio State University, May 30, 1991. Induction of persistent MHC class II expression by macrophages.

Department of Rheumatology, University of Virginia, February 9, 1994. Update in CD40 mediated signaling: Involvement of PTK, PTP and PI3K.

Jonsson Cancer Center, UCLA, February 22, 1996. Involvement of the Stat pathway in B cell differentiation.

Department of Rheumatology, UCLA School of Medicine, October 30, 1996. Role of the JNK cascade in the regulation of IL-2 production in T lymphocytes.

Jonsson Cancer Center, UCLA, December 12, 1996. Regulation of IL-2 expression in Jurkat cells by MEKK1.

Jonsson Cancer Center, UCLA, October 28, 1997. Role of the JNK cascade in the apoptosis of T cells.

EuroCancer 1998, Paris, June 4, 1998. Integrated Approach to the Discovery of Cancer Therapeutics.

American Association of Clinical Chemists-Baychem 99, San Francisco, September 24, 1999. Expression Analysis of Cancer Genes.

### **HONORS AND AWARDS:**

Honors Tuition Scholarship 1985-1986  
ICSABER Graduate Forum Award, 1990.  
AFCR Trainee Investigation Award, 1993.

**GRANTS AND FUNDING**

1. NIH-Tumor Immunology Training Grant, 1994. Title: Regulation of Signaling Pathways in Kaposi's Sarcoma. \$27,000.
2. NIH-Tumor Immunology Training Grant, 1995. Title: Regulation of Signaling Pathways in Kaposi's Sarcoma. \$29,000.
3. NIH Program Project Grant R and D 19, 1998. Title: Role of the JNK Pathway in SLE. \$60,000

**PROFESSIONAL AFFILIATIONS:**

Society for Leukocyte Biology.  
American Federation for Clinical Research.  
American Association for the Advancement of Science  
American Association of Immunologists  
Jonsson Cancer Center